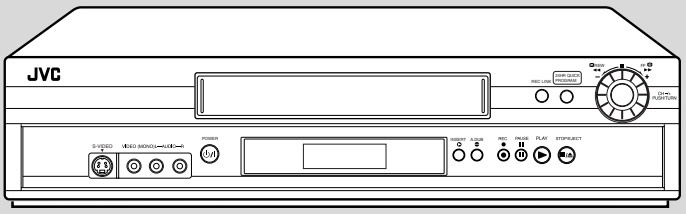
JVC VIDEO CASSETTE RECORDER SR-V101US

S-VHS Hi-Fi VCR Plus+ ® Super VHS ET

INSTRUCTIONS



Professional series

LPT0887-001A

Dear Customer,
Thank you for purchasing the JVC S-VHS video cassette recorder. Before use, please read the safety information and precautions to ensure safe use of your new VCR.

CAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION:
This video cassette recorder should be used with AC 120V~, 60Hz only.
To prevent electric shocks and fire hazards, DO NOT use any other power source.

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION:
POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For Customer Use:
Enter below the Model No. and Serial No. which are located on the rear of cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

NOTE:
Changes or modifications not approved by JVC could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio TV technician for help.

Declaration of Conformity

Model Number:	SR-V101US
Trade Name:	JVC
Responsible Party:	JVC Americas Corp.
Address:	1700 Valley Road Wayne, N.J. 07470
Telephone Number:	973-317-5000

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Failure to heed the following precautions may result in damage to the VCR, Remote or video cassette.

1. DO NOT place the VCR . . .
   ...in an environment prone to extreme temperatures or humidity.
   ...in direct sunlight.
   ...in a dusty environment.
   ...in an environment where strong magnetic fields are generated.
   ...on a surface that is unstable or subject to vibration.
2. DO NOT block the VCR's ventilation openings.
3. DO NOT place heavy objects on the VCR or on the Remote.
4. DO NOT place anything which might spill on the top of the VCR or on the Remote.
5. AVOID violent shocks to the VCR during transport.

VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VCR Plus+ system is manufactured under license from Gemstar Development Corporation

Cassettes marked "S-VHS" and "VHS" can be used with this video cassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-VHS".
By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this VCR.

MOISTURE CONDENSATION

Moisture in the air will condense on the VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the unit turned on for a few hours to let the moisture dry.

IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

ATTENTION:
Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this booklet for future reference.

INSTALLATION

1. Grounding or Polarization

(A) Your product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.
If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. Power Sources

Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

3. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

4. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

5. Ventilation

Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding

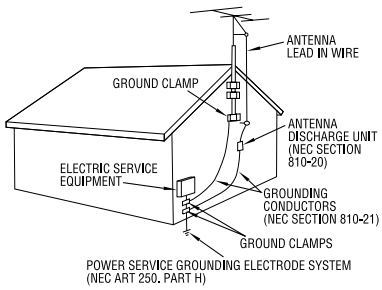
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

2. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

3. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250. PART H)

NEC – NATIONAL ELECTRICAL CODE

USE

1. Accessories
To avoid personal injury:
- Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and follow the manufacturer's instructions for any mounting of the product.
- Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

2. Product and Cart Combination
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING (Symbol provided by RETAC)

3. Water and Moisture
Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

4. Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

5. Attachments
Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

6. Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICING

1. Servicing
If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

2. Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. When the power supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or damaged in any way.
f. When the product exhibits a distinct change in performance—this indicates a need for service.

3. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or which have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

4. Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

How to use the Remote

Before use, insert two AA size batteries into the Remote with the polarity (⊕ and ⊖) matched correctly as indicated on the battery compartment or on the lid.
The Remote can operate most of your VCR's functions, as well as basic functions of TV sets, cable boxes and DBS receivers.
- Point the Remote toward the remote sensor on the target component.
- The maximum operating distance of the Remote is about 8 m.

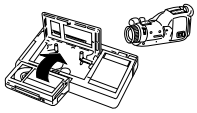
NOTE:
If the Remote does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.

Video heads cleaning

The heads get dirty in the following cases:
- in an environment prone to extreme temperature or humidity.
- in a dusty environment
- flaw, dirt or mold on video tapes
- continuous usage for a long time

Use a dry cleaning cassette — TCL-2 — when:
- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
- "USE CLEANING CASSETTE" appears on the screen (only with "ON SCREEN (PLAY)" set to "ON" (☞ pg. 18)).

Usable cassettes



- Compact VHS camcorder recordings can be played on this VCR. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This VCR can record on regular VHS and Super VHS cassettes. While only VHS signals can be recorded on regular VHS cassettes*, both VHS and Super VHS signals can be recorded and played back using Super VHS cassettes.
  ** By using the S-VHS ET function, it is possible to record and play back with S-VHS picture quality on VHS cassettes with this VCR.*

ATTENTION:
To mobile phone user:
Using a mobile phone in the vicinity of the VCR may cause picture vibration on the TV screen or change the screen to a blue back display.
On placing the VCR:
Some TVs generate strong magnetic fields.
- Make sure to place the VCR at least 20 cm (7 or 8 inches) away from a TV.
- DO NOT place the VCR close to a TV as it may cause noise, picture disturbance or malfunctions (power off, etc.) to occur.

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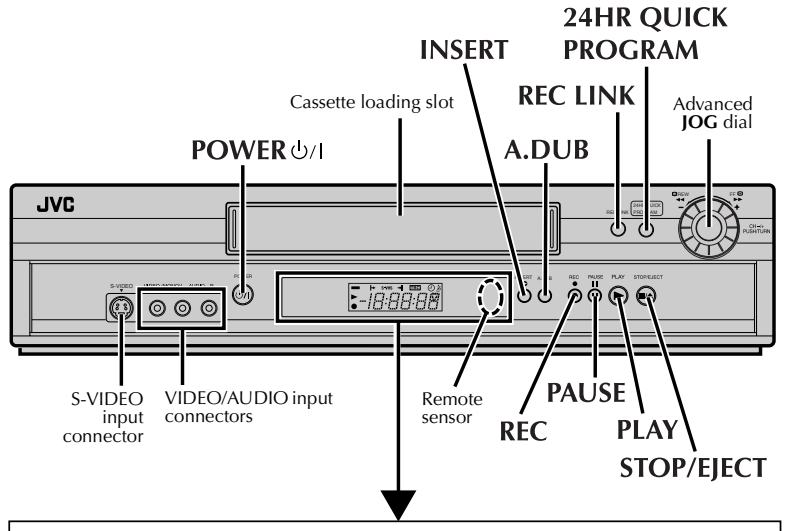
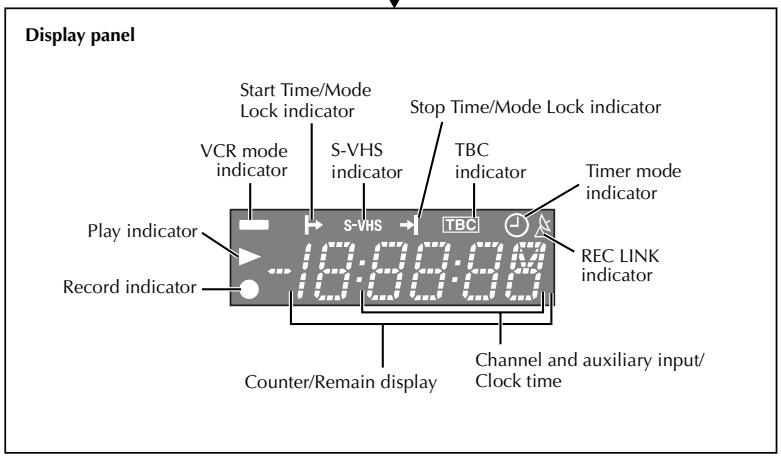
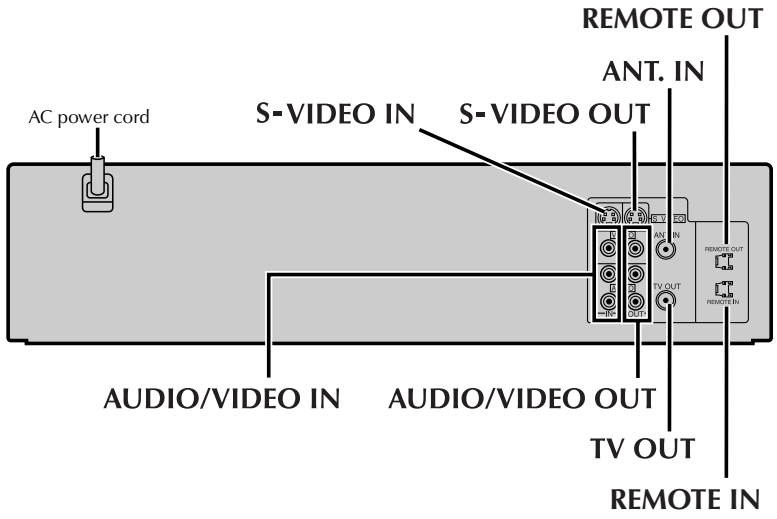
Buttons, Connectors and Indicators

Front Panel





Rear Panel



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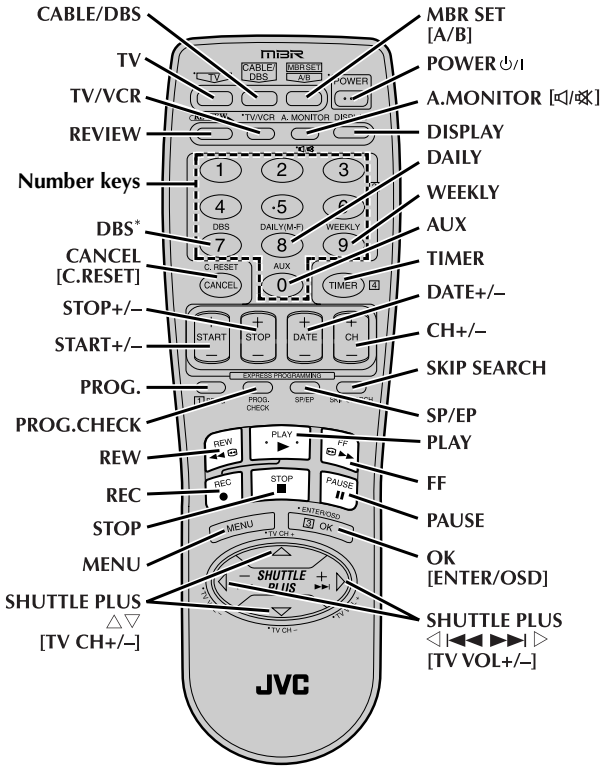
Remote



** does not function with this VCR.*

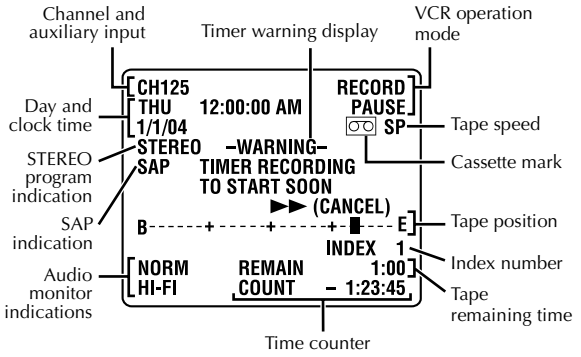
SEP function is available eventhough there is only indication of SP/EP on the Remote.

The glow-in-the-dark buttons shown in white on the illustration above are helpful when using the Remote in darkened rooms.

Buttons with a small dot on the left side of the name can also be used to operate your TV while holding down TV on the Remote.

On-screen display

If you press **OSD (OK)** on the Remote when "ON SCREEN (REC) and ON SCREEN (PLAY)" are set to "ON" (☞ pg. 18), you can see the current VCR status on the TV screen.
The indications are not recorded even if the VCR is in the recording mode.



To recall an indication

1 Press **OSD** (**OK**).
- All indications corresponding to the current status are displayed for 5 seconds. After that, the counter information and RECORD/PAUSE (if in the Record Pause mode), remain on the TV screen.

2 Press **OSD** (**OK**) again to clear the display.
- The RECORD/PAUSE indication remains on the TV screen.

Connections and Plug&Play Setting

1 Check contents

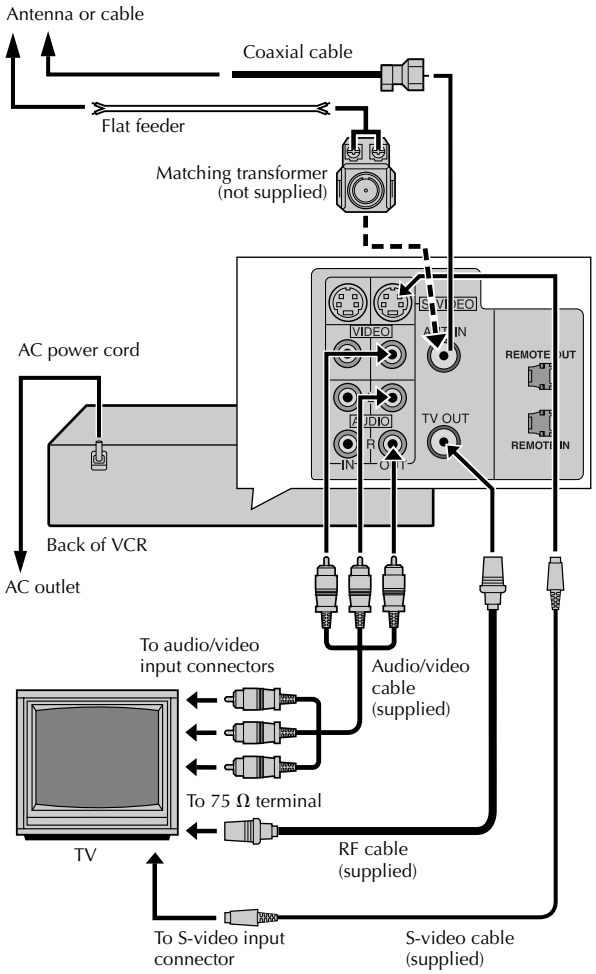
Make sure the package contains all of the accessories listed in "Specifications" (☞ pg. 25).

2 Situate VCR

Place the VCR on a stable, horizontal surface.

3 Connect VCR to TV

The following connections are required.



RF Connection

1 Disconnect the TV antenna from the TV.
2 Connect the TV antenna cable to the ANT. IN terminal on the rear of the VCR.
3 Connect the supplied RF cable between the TV OUT terminal on the rear of the VCR and the TV's antenna input terminal.

AV Connection

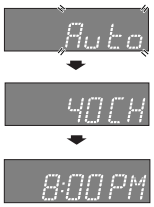
(improves picture quality during tape playback.)
If your TV is equipped with audio/video input connectors
1 Connect the antenna, VCR and TV as shown in the illustration.
2 Connect an audio/video cable between the AUDIO/VIDEO OUT connectors on the rear of the VCR and the audio/video input connectors on the TV.

S-video Connection

(allows you to make the most of the S-VHS picture performance.)
If your TV is equipped with a S-video input connector
1 Perform "RF Connection" previously described.
2 Connect the supplied S-video cable between the S-VIDEO OUT connector on the rear of the VCR and the S-video input connector on the TV.
3 Connect an audio cable between the AUDIO OUT connectors on the rear of the VCR and the audio input connectors on the TV.

4 Perform Plug&Play setup

Plug the AC power cord into an AC outlet. DO NOT turn on the VCR. The clock and tuner channels will be set automatically.
- The time and date can be set automatically by the clock setting data transmitted from one of the regular TV broadcast channels. We call this TV channel the "host channel" and it is a PBS channel in your area.



During Initial Auto Clock Set
"Auto" blinks.

During Auto Channel Set
The channel numbers are displayed as they are scanned and set.

Plug&Play Completed
The current time is displayed.

ATTENTION:

Depending on areas or reception conditions, the VCR may not receive the Auto clock setting data from a PBS channel. If this function is taking a considerable amount of time, it may be necessary to perform the procedure in "Semiauto Clock Set" (☞ pg. 8) or "Manual Clock Set" (☞ pg. 8).

What to do if Plug&Play setting failed
- If an incorrect time is displayed on the display panel, perform the procedure in "Semiauto Clock Set" (☞ pg. 8) or "Manual Clock Set" (☞ pg. 8).
- If "– –:– –" appears on the display panel, ensure that the antenna cable is connected correctly. Then turn on and off the VCR; the Plug&Play setting will be automatically reactivated.
- If Plug&Play setting is not performed though the antenna cable is connected correctly, perform the procedure in "Manual Clock Set" (☞ pg. 8) and "Auto Channel Set" (☞ pg. 9) or "Manual Channel Set" (☞ pg. 9).

5 Set VCR channel

Press **POWER** ⏻/I to turn off the VCR, then press **STOP/EJECT** (■/⏏) on the VCR for more than 5 seconds. "3CH" appears on the display panel. Press **CH+/–** on the Remote to select "3CH", "4CH" or "–CH"(OFF), then press **OK**.
- The VCR channel is preset to "3CH". Set to "4CH" if 3CH is used for broadcasting in your area.

6 Final preparation for use

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV. You can now perform basic playback or basic recording.
- If you connect the TV and the VCR only using the RF connection, press **TV/VCR** on the Remote so that the VCR mode indicator (▬) lights on the display panel.

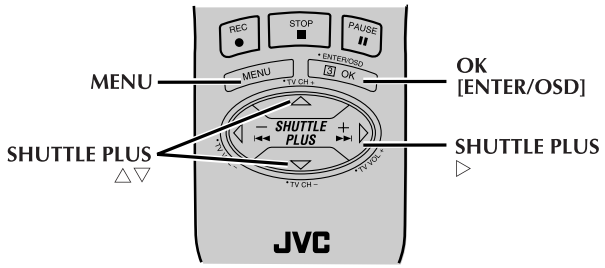
NOTES:

- *The VCR channel is the channel on which you can watch the picture from the VCR on the TV when only using the RF connection.*
- *Even if you are using audio/video cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another.*

Initial Settings

Clock Setting

Turn on the VCR and TV, and select the VCR channel (or AV mode).

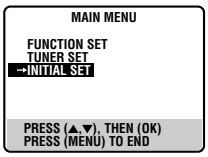


Perform clock setting only if the clock has not been set correctly by the Plug&Play setting.

Preparations

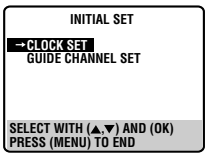
1 Access Main Menu screen, then Initial Set screen

Press **MENU** on the Remote. Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or **SHUTTLE PLUS** ▷.



2 Access Clock Set screen

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "CLOCK SET", then press **OK** or **SHUTTLE PLUS** ▷.

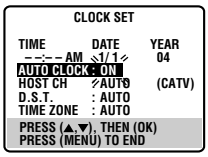


Setting clock semiautomatically — Semiauto Clock Set

You can change the host channel/D.S.T. (Daylight Saving Time)/ time zone setting manually. First follow steps 1 to 2 in "Preparations" above, then go to the following steps.

3 Set Auto Clock to ON

Press **OK** or **SHUTTLE PLUS** ▷ on the Remote repeatedly to move the highlight bar to "AUTO CLOCK", then press **SHUTTLE PLUS** △▽ so that "ON" is selected.



- The time set previously will be erased when "AUTO CLOCK", "HOST CH", "D.S.T." or "TIME ZONE" setting is changed.

4 Select host channel

You can either select "AUTO" or enter a PBS channel number. Press **OK** or **SHUTTLE PLUS** ▷ to move the highlight bar to "HOST CH", then press **SHUTTLE PLUS** △▽ repeatedly until "AUTO" or the desired PBS channel number is selected.

- Some PBS channels do not transmit clock setting data.

5 Select D.S.T. mode

Press **OK** or **SHUTTLE PLUS** ▷ to move the highlight bar to "D.S.T.", then press **SHUTTLE PLUS** △▽ repeatedly until the desired setting is selected.

AUTO: Select if you want to adjust your VCR's clock automatically by the incoming signal from the host channel. (Auto Daylight Saving Time enables automatic adjustment of the VCR's clock at the start and end of Daylight Saving Time.) Be sure to select the correct time zone manually in step 6.

ON: Adjustment will be made by the built-in clock itself.

OFF: Select when Daylight Saving Time does not apply to you.

6 Select time zone

Press **OK** or **SHUTTLE PLUS** ▷ to move the highlight bar to "TIME ZONE", then press **SHUTTLE PLUS** △▽ repeatedly until "AUTO" or the desired time zone is selected. Each time you press the button, the time zone changes as follows:

↔ AUTO ↔ ATLANTIC ↔ EASTERN ↔ CENTRAL ↔ MOUNTAIN ↔ PACIFIC ↔ ALASKA ↔ HAWAII ↔ (back to the beginning)

7 Complete Semiauto Clock Set

Press **MENU** to return to normal screen.

IMPORTANT
Turn off the VCR. "Auto" will appear on the display panel while the clock is being set. The current clock time will appear automatically when the clock setting is complete.

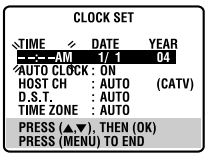
Setting clock manually — Manual Clock Set

First follow steps 1 to 2 in "Preparations" previously described, then go to the following steps.

3 Set time, date and year

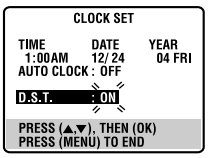
Press **SHUTTLE PLUS** △▽ until the desired time appears, then press **OK** or **SHUTTLE PLUS** ▷. Set the date and year in the same way.

- Holding **SHUTTLE PLUS** △▽ changes the time in 30-minute intervals, or changes the date in 15-day intervals.



4 Select D.S.T. mode

Press **OK** or **SHUTTLE PLUS** ▷ to move the highlight bar to "D.S.T.", then press **SHUTTLE PLUS** △▽ to select the desired setting.



ON: Adjustment will be made by the built-in clock itself.

OFF: Select when Daylight Saving Time does not apply to you.

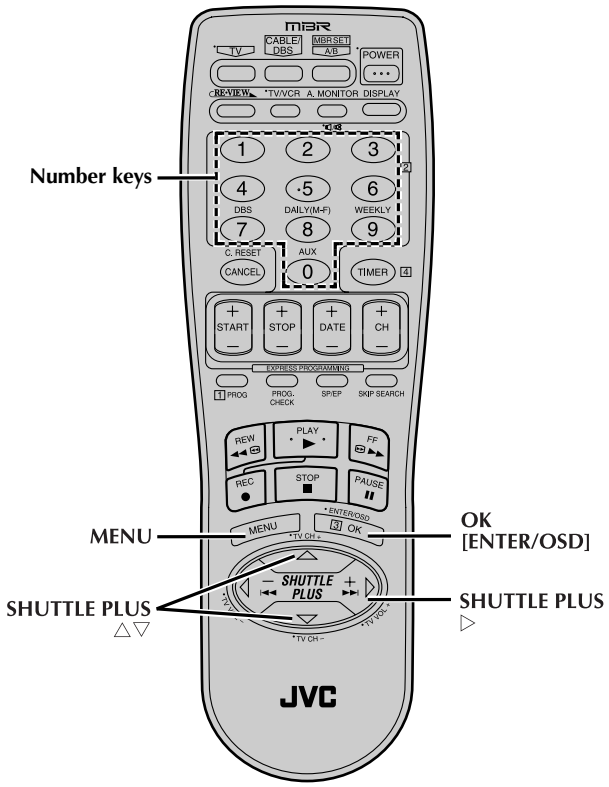
5 Start clock

Press **MENU** and normal screen appears.

To make corrections any time during the process
Press **OK** or **SHUTTLE PLUS** ▷ repeatedly until the item you want to change blinks, then press **SHUTTLE PLUS** △▽.

Tuner Setting

Turn on the VCR and TV, and select the VCR channel (or AV mode).

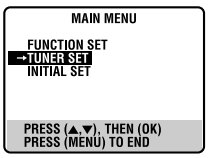


Setting channels automatically — Auto Channel Set

Perform Auto Channel Set only if channels have not been set correctly by the Plug&Play setting.

1 Access Main Menu screen, then Tuner Set screen

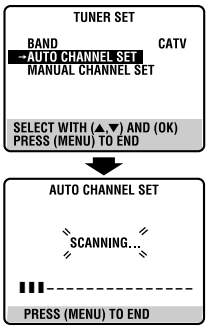
Press **MENU** on the Remote. Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "TUNER SET", then press **OK** or **SHUTTLE PLUS** ▷.



2 Perform Auto Channel Set

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "AUTO CHANNEL SET", then press **OK** or **SHUTTLE PLUS** ▷. The VCR selects the correct band (TV or CATV) automatically during Auto Channel Set.

- When Auto Channel Set is complete, "SCAN COMPLETED" appears on screen.
- If the scan was unsuccessful, "SCAN COMPLETED–NO SIGNAL–" appears on screen. Check the connections and start again.



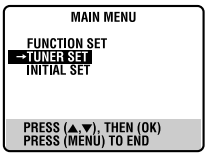
3 Press MENU to return to normal screen.

Setting channels manually — Manual Channel Set

You can add the channels you want or delete the channels you do not want manually.

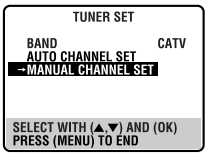
1 Access Main Menu screen, then Tuner Set screen

Press **MENU** on the Remote. Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "TUNER SET", then press **OK** or **SHUTTLE PLUS** ▷.

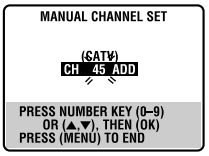


2 Access Manual Channel Set screen

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "MANUAL CHANNEL SET", then press **OK** or **SHUTTLE PLUS** ▷.



3 Add or skip desired channels



To add channels

1. Press the **Number keys** on the Remote to input a channel number you want to add.
2. Press **OK** or **SHUTTLE PLUS** ▷ to set to "ADD".
3. Repeat 1 to 2 to add other channels.

To skip channels

1. Press **SHUTTLE PLUS** △▽ or the **Number keys** to select a channel number you want to skip.
2. Press **OK** or **SHUTTLE PLUS** ▷ to set to "SKIP".
3. Repeat 1 and 2 to skip other channels.

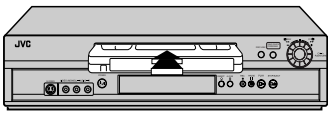
4 Press MENU to return to normal screen

Playback

Basic Playback

Turn on the VCR and TV, and select the VCR channel (or AV mode).

1 Load a cassette



Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR.

- Do not apply too much pressure when inserting.
- The VCR turns on, and the counter on the on-screen display is reset, automatically.
- If the cassette's record safety tab has been removed and "REC SAFETY" is set to "ON" (☞ pg. 19), playback begins automatically.

2 Start playback

Press **PLAY** (▶).

- The S-VHS indicator lights up when you play back a tape recorded in S-VHS mode or in S-VHS ET mode (☞ pg. 13).
- If "VIDEO CALIBRATION" is set to "ON" (☞ pg. 18), "VIDEO CALIBRATION" appears on the screen, and this VCR checks the tape condition during automatic tracking.

During playback

Stop playback

Press **STOP** (■) on the Remote. **OR** Press **STOP/EJECT** (■/⏏) on the VCR.

Pause playback and view still picture

Press **PAUSE** (❚❚).

- Press **PLAY** (▶) to resume normal playback.

NOTE:
*During still picture, vertical vibration may appear on the TV screen. Press **CH+/–** on the Remote to get a clearer picture.*

Pause and Frame-by-Frame playback

Press **PAUSE** (❚❚) to pause, then press **SHUTTLE PLUS** |◀◀ or ▶▶| (or **PAUSE** (❚❚)) repeatedly, or turn the **JOG** dial to the left or right.

- Press **PLAY** (▶) to resume normal playback.

Picture Search

Press **REW** (◀◀) or **FF** (▶▶) on the Remote. Press **REW** (◀◀) or **FF** (▶▶) again to perform high-speed search.

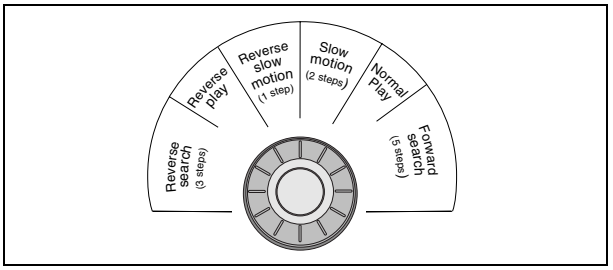
- Each time you press **REW** (◀◀) or **FF** (▶▶) the search speed changes between low-speed and high-speed.
- Press **PLAY** (▶) to resume normal playback.

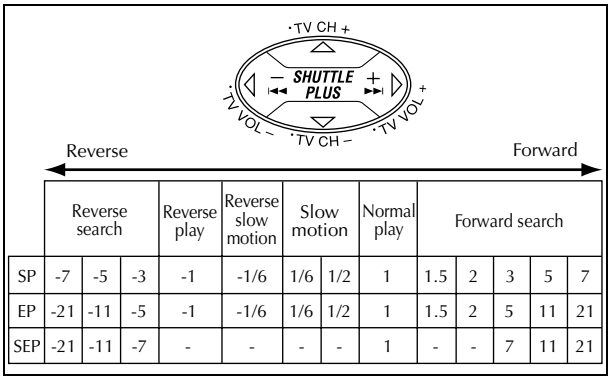
Variable-Speed Picture Search (including slow-motion)

Press **SHUTTLE PLUS** |◀◀ or ▶▶| repeatedly. **OR** Turn the **JOG** dial to the left or right.

- Press **PLAY** (▶) to resume normal playback.
- Each time you press **SHUTTLE PLUS** |◀◀ or ▶▶| or each time **JOG** dial passes a click position, the playback speed changes. To decrease the speed during picture search, press the opposite direction button repeatedly or turn the dial in the opposite direction.
- During still picture, press and hold **SHUTTLE PLUS** ▶▶| to start forward (or **SHUTTLE PLUS** |◀◀ to start reverse) slow motion playback. When you release the button, still picture resumes. During still picture, holding **PAUSE** (❚❚) for more than 2 seconds also starts forward slow motion playback. If you press **PAUSE** (❚❚) again, still picture resumes.

NOTE:
*During slow motion, some noise may appear on the TV screen. Press **CH+/–** on the Remote to eliminate the noise.*





	Reverse search			Reverse play	Reverse slow motion	Slow motion		Normal play	Forward search				
SP	-7	-5	-3	-1	-1/6	1/6	1/2	1	1.5	2	3	5	7
EP	-21	-11	-5	-1	-1/6	1/6	1/2	1	1.5	2	5	11	21
SEP	-21	-11	-7	-	-	-	-	1	-	-	7	11	21

- *You can hear the (normal) audio track only during 1.5x PB speed search.*
- *1.5x PB speed is only for SP/EP mode.*

When the tape is not running

Rewind/fast-forward

Press **REW** (◀◀) or **FF** (▶▶). **OR** Turn the **JOG** dial to the left or right.

Eject the cassette

Press **STOP/EJECT** (■/⏏).

- You can also eject the cassette when the VCR is turned off.

Turn off the VCR

Press **POWER** ⏻/I.

To prohibit operations during playback (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "|▶" and "▶|" light up on the front display panel. The playback will not be interrupted until the recording end (unrecorded portion) or tape end is reached.
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.

- When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter remains on the TV screen. If the time counter is not necessary, set "ON SCREEN (PLAY)" to "OFF" (☞ pg. 18).

Playback Features

Turn on the VCR and TV, and select the VCR channel (or AV mode).

Adjusting tracking condition — Tracking Adjustment

Automatic tracking adjustment
Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

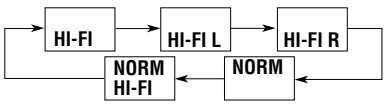
Manual tracking adjustment
If automatic tracking cannot eliminate noises well during playback, follow the procedures below.

On the Remote

1. Press **SP/EP** during playback to activate manual tracking.
2. Press **CH +/–** to eliminate the noises. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.
   - Press **SP/EP** again to reactivate automatic tracking.

Selecting monitor sound — Audio Monitor

While playing back a tape on which stereo sound or SAP sound is recorded, press **A.MONITOR** on the Remote. Each time you press the button, sound changes.



HI-FI: Normally select this. Hi-Fi sound is played back.
HI-FI L: Sound on the left Hi-Fi channel is played back.
HI-FI R: Sound on the right Hi-Fi channel is played back.
NORM: Sound on the normal track is played back.
NORM HI-FI: Both sounds on the Hi-Fi track and normal track are mixed and played back.

NOTES:
- *The above indication appears when "ON SCREEN (PLAY)" is set to "ON" (☞ pg. 18), though the monitor sound changes in sequence.*
- *If the tape being played back has no Hi-Fi sound track, the normal sound track will be heard regardless of this setting.*
- *If RF connection (☞ pg. 7) is used for viewing pictures on the TV, sound will be monaural even though you select "Hi-Fi".*
- *You can also use the menu to select your desired monitor sound. (☞ pg. 19)*

Automatic operations after rewinding — Next Function Memory

The Next Function Memory "tells" the VCR what to do after rewinding is complete. Ensure that the VCR is in stop mode.

On the Remote

- **For Automatic Playback Start**
  Press **REW** (◀◀), then press **PLAY** (▶) within 2 seconds.
- **For Automatic Power Off**
  Press **REW** (◀◀), then press **POWER** ⏻/I within 2 seconds.
- **For Automatic Timer Standby**
  Press **REW** (◀◀), then press **TIMER** within 2 seconds.

NOTE:
It is not possible to select the Automatic Timer Standby function if the cassette's record safety tab is removed.

Playing back tape repeatedly — Repeat Play

During playback, press and hold **PLAY** (▶) for more than 5 seconds. The play indicator (▷) on the display panel starts blinking slowly. To stop playback, press **STOP** (■) on the Remote or **STOP/EJECT** (■/⏏) on the VCR.

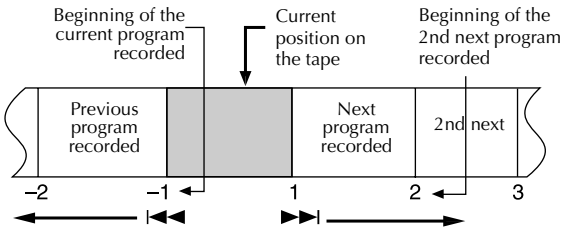
- To select the returning point (recording end or tape end), see "REC END RETURN" on ☞ page 19.

To prohibit operations during Repeat Play (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "↦" and "➔|" light up on the front display panel. The entire recording or entire tape will be played back repeatedly without any interruption.
To cancel Mode Lock, press and hold **OK** on the Remote again for more than 5 seconds.
- When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter remains on the TV screen. If the time counter is not necessary, set "ON SCREEN (PLAY)" to "OFF" (☞ pg. 18).

Locating beginning of recordings — Index Search

Index codes are placed on the tape at the beginning of each recording when recording on this VCR.

1. While the tape is not running, press **SHUTTLE PLUS** |◀◀ or ▶▶| on the Remote to start search.
2. To access a recording of 2 to 9 index codes away, press |◀◀ or ▶▶| repeatedly until the correct number is displayed on the screen (only if "ON SCREEN (REC)" is set to "ON" (☞ pg. 18)). Playback begins automatically when the desired recording is located.



Locating beginning of timer recordings — Instant Review

After ensuring that the VCR is turned off and that the timer mode is disengaged, press **REVIEW**.
- The VCR turns on, and rewinds to the index code indicating the beginning of the last timer-recorded program, then begins playback automatically.
- You can access a program of 2 to 9 index codes away from the current position on the tape. If, for example, you have 5 programs recorded and you want to watch the third one, press **REVIEW** three times.
- The Instant Review function will also operate if the VCR is turned on.

Skipping unwanted portions — Skip Search

Press **SKIP SEARCH** on the Remote once to 4 times during playback. Each press initiates a 30-second period of high speed playback (up to 2 minutes). When the specified portion of the tape is skipped, normal playback resumes automatically. To return to normal playback during Skip Search, press **PLAY** (▶).

Playback Resume Function

If there is a power outage during normal playback (or Series Playback), the playback will resume automatically when the power is restored to the VCR. (No setting is required for this function.)

Recording

It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its record safety tab and set "REC SAFETY" to "ON" (☞ pg. 19). To record on it later, cover the hole with adhesive tape and reset the "REC SAFETY" to "OFF" (☞ pg. 19).

Basic Recording

Turn on the VCR and TV, and select the VCR channel (or AV mode).

1 Load a cassette

Make sure the record safety tab is intact. If not, set "REC SAFETY" to "OFF" (☞ pg. 19) or cover the hole with adhesive tape before inserting the cassette.

- The VCR turns on, and the counter on the on-screen display is reset, automatically.

2 Select recording channel

Press **CH+/–** or the **Number keys** on the Remote. Or push the **JOG** dial, then turn it to the left or right.

- If you connect the TV and the VCR only using the RF connection (☞ pg. 7), press **TV/VCR** on the Remote so that the VCR mode indicator (▬) lights on the display panel, to view the program to be recorded.

3 Set tape speed

Press **SP/EP**. The selected tape speed will appear on the TV screen.

NOTES:

- *When you record using SEP mode, playback the tape with this deck.*
- *You can select tape speed in the stop mode or during recording pause mode.*

4 Start recording

On the VCR, press **REC** (●). Or on the Remote, while holding **REC** (●), press **PLAY** (▶).

NOTE:

If "VIDEO CALIBRATION" is set to "ON" (☞ pg. 18) (default setting), the VCR takes about 7 seconds to assess the quality of the tape in use, then recording begins with the picture level optimized.

During recording		
Pause recording		
Press **PAUSE** (❚❚). ● Press **PLAY** (▶) to resume recording. ● You can select channel in the recording pause mode.		
Stop recording		
Press **STOP** (■) on the Remote.	**OR**	Press **STOP/EJECT** (■ / ⏏) on the VCR.

NOTE:

*If the tape reaches its end during recording, the recording stops and "◯" and "▷" on the display panel blink. Press **STOP/EJECT** (■ / ⏏) on the VCR to eject the cassette or press **REW** (◀◀) on the Remote to rewind the tape.*

Recording Features

Turn on the VCR and TV, and select the VCR channel (or AV mode).

Recording on one tape repeatedly — Repeat Recording

You can record programs on one tape repeatedly.
While recording, press and hold PLAY (▶) and REC (●) on the Remote or REC (●) on the front panel for more than 5 seconds.
The record indicator on the front display panel starts blinking slowly.
To stop recording, press **STOP** (■) on the Remote or **STOP/EJECT** (■ / ⏏) on the front panel.

To prohibit operations during Recording or Repeat Recording (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "▮▶" and "▶▮" light up on the front display panel. No button will function and recording will not be interrupted.
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.

- When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter remains on the TV screen. If the time counter is not necessary, set "ON SCREEN (REC)" to "OFF" (☞ pg. 18).

Watching one program while recording another

During recording...

- If you connect the TV and the VCR only using the RF connection (☞ pg. 7) to view pictures from the VCR, press **TV/VCR** on the Remote so that VCR mode indicator (▬) goes off from the display panel. (The TV broadcast being recorded disappears.)
- If you are using the AV connection (☞ pg. 7) to view pictures from the VCR, change the TV's input mode from AV to TV.

Then, select the channel you want to watch, on the TV.

Second Audio Recording

This VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON" (☞ pg. 19).

NOTES:

When the channel is changed on the VCR;

- *The 'STEREO" indication appears on the screen for about 5 seconds if the program is stereo broadcast.*
- *The "SAP" indication appears on the screen for about 5 seconds if the program is a SAP broadcast.*
- *Both indications appear when a stereo program is accompanied by SAP sound.*

Recording Resume Function

If there is a power outage during recording (or Timer Recording or Series Recording), the recording will resume automatically when the power is restored to the VCR. (No setting is required for this function.)

S-VHS (Super VHS), S-VHS ET or VHS Recording Mode

This VCR can record in S-VHS (Super VHS), S-VHS ET or VHS.

- **To record in S-VHS:**
  Set "S-VHS MODE" to "ON" (☞ pg. 19). Then, insert a cassette marked "S-VHS". The S-VHS indicator lights up on the display panel.

The S-VHS recording mode is selected.

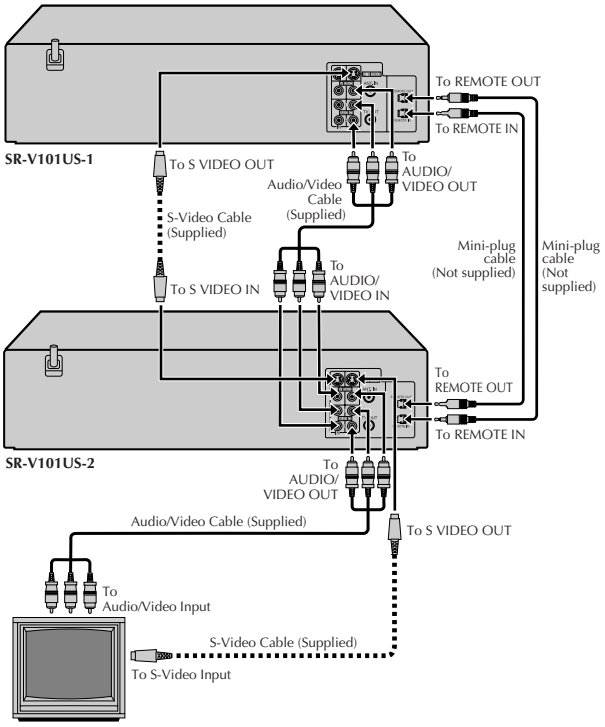
- **To record in S-VHS ET on a VHS cassette:**
  Set "S-VHS ET" to "ON" (☞ pg. 19). Then, insert a cassette marked "VHS". The S-VHS indicator lights up on the display panel.
- **To record in VHS:**
  Insert a cassette marked "VHS".
  Set "S-VHS ET" to "OFF" (☞ pg. 19).
- **To record in VHS on an S-VHS cassette:**
  Insert a cassette marked "S-VHS". The S-VHS indicator lights up on the display panel. Then, set "S-VHS MODE" to "OFF" (☞ pg. 19). The S-VHS indicator goes off.
  The VHS recording mode is selected.

NOTE:

When playing back a tape that has been recorded in S-VHS or S-VHS ET, the S-VHS indicator lights up on the display panel regardless of the "S-VHS ET" (☞ pg. 19) or "S-VHS MODE" (☞ pg. 19) setting.

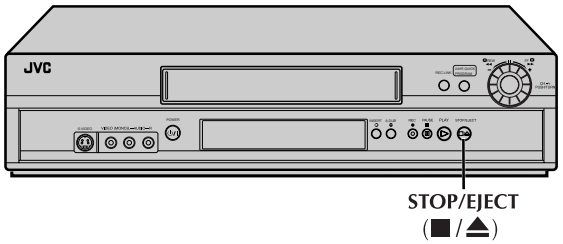
Series Playback and Recording

Series Playback



NOTE:

Series Playback is also possible using the front AUDIO/VIDEO connectors.



Using two sets (or more) of SR-V101US, you can play back two (or more) cassettes alternately as many times as you want. You can select the returning point for Series Playback (☞ pg. 19).

Use the buttons and controls on the VCR's front panel for the Series Playback operations (except when using Mode Lock).

CONTINUED ON NEXT PAGE

1 Make connections

Connect two sets of SR-V101US and a TV using AV cables as shown in the illustration.

- The mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.
- When playing back S-VHS recordings, it is recommended to use the S-VIDEO connection to minimize picture degradation.

2 Turn on all components

After completing the connections, turn on all the components.

- Set the TV to video input mode or A/V input mode. Refer to the TV instruction manual.

3 Load cassettes

Insert the playback cassette into each SR-V101US.
Set SR-V101US-2 to "AUX". Press CH + or – to select the input mode depending on the connector being used:

- "L-1" for the rear AUDIO/VIDEO IN connector, or
- "F-1" for the front AUDIO/VIDEO input connector.

4 Start playback

- Press **PLAY** (►) on either of SR-V101US. When the playback reaches to the returning point (tape end or recording end ☞ page 19), the other SR-V101US successively starts to play. (The cassette will automatically be rewound when the playback stops.) Therefore, the cassettes loaded on two SR-V101US will be played back alternately as many times as you want.

To stop playback

Press **STOP/EJECT** (■ /⏏) on the SR-V101US which is playing back a cassette.

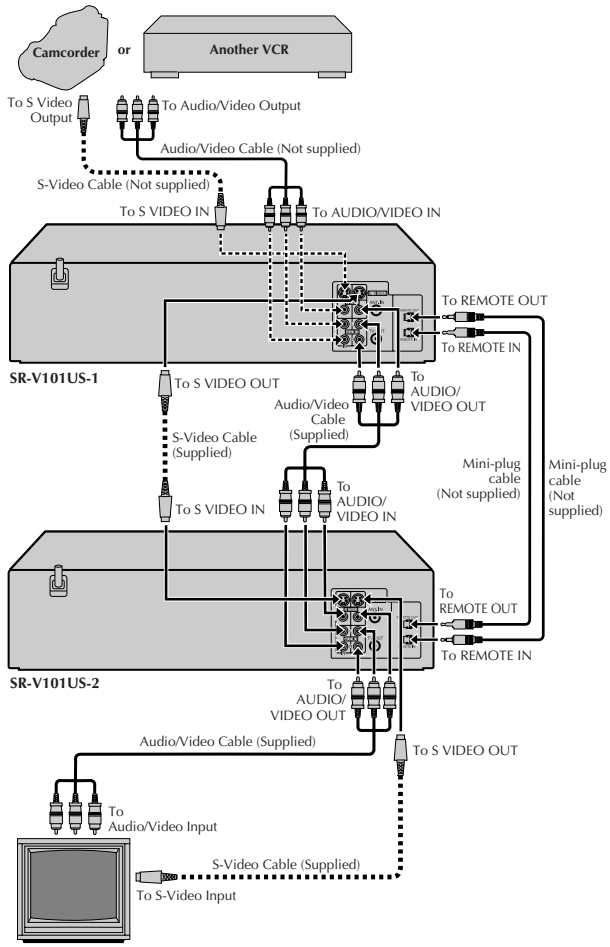
NOTE:

If there is a power outage during Series Playback, the playback will resume automatically when the power is restored to the VCR. (No setting is required for this function.)

To prohibit operations during Series Playback (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "▶▶" and "→▶" light up on the front display panel. The 2 cassettes will be played back alternately without any interruption.
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.

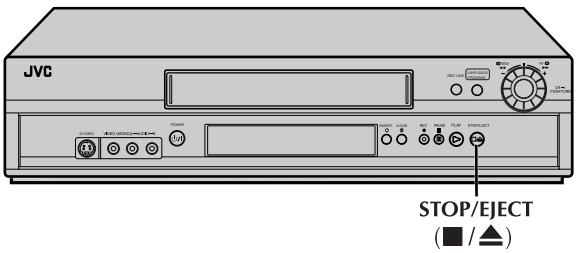
- When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter remains on the TV screen. If the time counter is not necessary, set "ON SCREEN (PLAY)" to "OFF" (☞ pg. 18).

Series Recording



NOTE:

Select the correct input mode ("L-1" for the rear connector, "F-1" for the front connector). (☞step 3)



Using two sets (or more) of SR-V101US, a long recording will be possible (such as camcorder recording, another VCR playback or TV broadcast).

Use the buttons and controls on the VCR's front panel for the Series Recording operations (except when using Mode Lock).

1 Make connections

Connect two sets of SR-V101US to other equipment, antenna or cable as shown in the illustration.

- The mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.
- When connecting a camcorder or another VCR with an S-VIDEO output connector as recording source, it is recommended to use the S-VIDEO connection to minimize picture degradation.

2 Turn on all components

After completing the connections, turn on all the components.

- Set the TV to video input mode or A/V input mode. Refer to the TV instruction manual.

3 Set recording VCR's input mode

Set to "AUX". Press **CH +** or **–** to select the input mode depending on the connector being used:

- "L-1" for the rear AUDIO/VIDEO IN connector, or
- "F-1" for the front AUDIO/VIDEO input connector.

4 Prepare for recording

Insert the recording cassette into each SR-V101US, and prepare the playback source.

NOTE:

If you do not want to display the superimposed indication on the screen during recording, set "ON SCREEN (REC)" to "OFF" (☞ pg. 18). If the playback equipment has a superimpose/OSD disable feature, set its superimpose or display feature to "OFF" as well.

5 Start recording

Press **REC** (●) on either of SR-V101US. When the tape remaining time reaches to 2 minutes while recording, the other SR-V101US successively starts to record. Therefore, recording will be continued onto cassettes loaded on two SR-V101US alternately.

- The cassette will automatically be rewound when the recording stops.
- Replace the cassette after rewound if you want to continue to record onto another cassette.

To stop recording

Press **STOP/EJECT** (■ / ⏏) on the SR-V101US which is recording.

To prohibit operations during Series Recording (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. " ▶▌ " and " ▌▶ " light up on the front display panel. The picture will be recorded onto the cassettes alternately without any interruption.
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.

- When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter will be recorded with your picture. If the time counter is not necessary, set "ON SCREEN (REC)" to "OFF" (☞ pg. 18).

NOTES:

- *Series Recording is also possible using the front AUDIO/ VIDEO connectors.*
- *When recording a TV broadcast, tune in the same channel on both SR-V101US.*
- *If you do not want to record the operational indications on the screen during Series Recording, set both "ON SCREEN (PLAY)" and "ON SCREEN (REC)" to "OFF". (☞ pg. 18)*
- *If there is a power outage during Series Recording, the recording will resume automatically when the power is restored to the VCR. (No setting is required for this function.)*

Timer Recording

Up to 8 timer recording programs can be made using VCR Plus+ timer programing, Express timer programing or 24HR Quick Programing method as far as a year in advance. Remember, the clock must be set before you can program the timer.

Turn on the VCR and TV, and select the VCR channel (or AV mode).

NOTES:

- *If all the 8 programs have already been set, "PROGRAM FULL" appears on the TV screen.*
- *After timer recording is completed, the VCR turns off automatically.*
- *You can program the timer recording while a regular recording is in progress; the menu screens will not be recorded.*
- *In case of a power failure after programming, the VCR's memory backup keeps your selections (if the lithium battery is not exhausted).*
- *If the tape reaches its end during timer recording, the recording stops and " ◴ ", " ◯ " and " ▷ " on the display panel blink. Press **TIMER** to disengage timer, then press **STOP/EJECT** (■ / ⏏) on the VCR to eject the cassette or press **POWER** ⏻/I then press **REW** (◀◀) on the Remote to rewind the tape.*

Changing VCR Plus+® Setting

The VCR Plus+ programing system assigns a VCR Plus+ guide channel to the TV channels and the cable channels. These guide channel numbers are also called the VCR Plus+ channel codes. Most TV listings have a section, usually a chart, indicating the guide channel numbers assigned to each station.
To ensure that VCR Plus+ timer recording operates correctly, it is necessary to set the VCR Plus+ "Guide Channel Set" for each station.
If you have moved to a different area or if a broadcasting station's channel number has been changed, perform the following steps to set the correct guide channel number.

1 Access Main Menu screen, then Initial Set screen

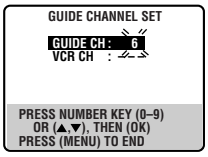
Press **MENU** on the Remote. Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or **SHUTTLE PLUS** ▷.

2 Access Guide Channel Set screen

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "GUIDE CHANNEL SET", then press **OK** or **SHUTTLE PLUS** ▷.

3 Input guide channel number

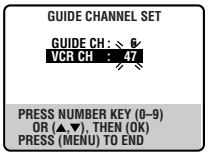
Press **SHUTTLE PLUS** △▽ or the **Number keys** to select the VCR Plus+ guide channel number as shown in the TV listing, then press **OK** or **SHUTTLE PLUS** ▷.



4 Input receiving channel number

Press **SHUTTLE PLUS** △▽ or the **Number keys** to select the number of the channel on which the guide channel's broadcasts are received, then press **OK** or **SHUTTLE PLUS** ▷.

- Repeat steps **3** and **4** for each instance.



5 Return to normal screen

Press **MENU** on the Remote.

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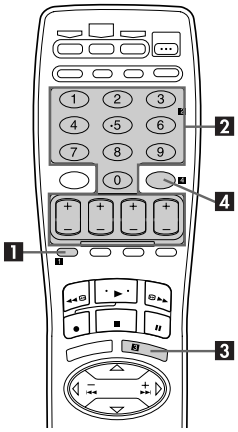
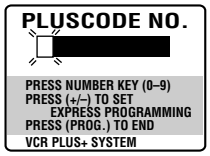
VCR Plus+® Timer Programing

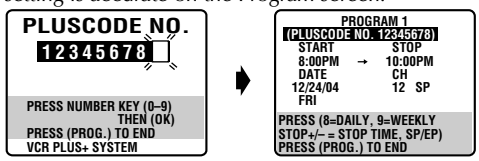
The PlusCode programing numbers are the numbers next to the program in most TV listing.
Load a cassette with the record safety tab intact. If not, set "REC SAFETY" to "OFF" (☞ pg. 19). The VCR turns on, and the counter is reset, automatically.



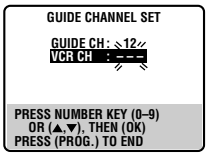
1 Press **PROG.** on the Remote to access the PlusCode No. screen.



2 Press the appropriate **Number keys** to input the PlusCode number, then press **OK** or **SHUTTLE PLUS** ▷. Check to make sure the setting is accurate on the Program screen.



- If the Guide Channel Set screen appears after pressing **OK**, press the **Number keys**, **CH+/–** or **SHUTTLE PLUS** △▽ to input the number of the channel on which the broadcast for the PlusCode number is received on the VCR, then press **OK**.



- To set the tape speed, press **SP/EP**.
- To change the stop time, press **STOP+/–**.
- To timer-record daily (Sunday–Saturday) or weekly serials, press **DAILY** (**Number key "8"**) or **WEEKLY** (**Number key "9"**). Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.
- If you made a mistake, press **CANCEL** to access the PlusCode No. screen again.
- If an incorrect PlusCode number or the one for a broadcast already finished has been input, "ERROR" is displayed for about 5 seconds, then the PlusCode No. screen reappears.

3 Press **OK** or **PROG.**.
- If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, see "Program Overlap Warning Display" (☞ pg. 17).

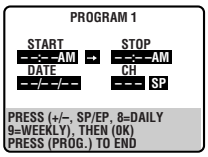
4 Press **TIMER**. The VCR turns off automatically and "🕘" is displayed on the display panel.

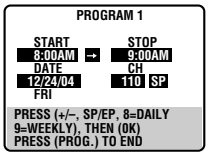
Express Timer Programing

Load a cassette with the record safety tab intact. If not, set "REC SAFETY" to "OFF" (☞ pg. 19). The VCR turns on, and the counter is reset, automatically.

1 Press **PROG.** on the Remote to access the PlusCode No. screen.

2 Press **START+/–** once to access Program screen.
Press **START+/–**, **STOP+/–**, **DATE+/–** or **CH+/–** repeatedly to enter the start time, stop time, date or channel.
- Press and hold **START+/–** or **STOP+/–** to increase the time in 30-minute intervals.
- To set the tape speed, press **SP/EP**.
- To timer-record daily (Sunday–Saturday) or weekly serials, press **DAILY** (**Number key "8"**) or **WEEKLY** (**Number key "9"**). Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.





3 Press **OK** or **PROG.**.
- If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, see "Program Overlap Warning Display" (☞ pg. 17).

4 Press **TIMER**. The VCR turns off automatically and "🕘" is displayed on the display panel.

24HR Quick Programing

You can program a timer recording that starts within 24 hours using the JOG dial on the VCR.
Load a cassette with the record safety tab intact or set "REC SAFETY" to "OFF" (☞ pg. 19). The VCR turns on, and the counter is reset, automatically.

1 Press **24HR QUICK PROGRAM** on the VCR. The start time indicator (▶) starts blinking on the display panel.

Start time

2 Turn the **JOG** dial to the left or right to set the start time.
- One click stop of the JOG dial changes the time in 5-minute intervals.

Stop time

3 Push the **JOG** dial. The stop time indicator (➔|) starts blinking on the display panel. Turn the **JOG** dial to the left or right to set the stop time.

Channel number

4 Push the **JOG** dial. Turn the **JOG** dial to the left or right to select the channel.
- To set the tape speed, press **SP/EP**. The current setting for the tape speed appears on the display panel for about 5 seconds. Press **SP/EP** again to change the setting while tape speed is displayed.

5 To engage timer recording standby mode, press **24HR QUICK PROGRAM**. The VCR turns off automatically and "🕘" is displayed on the display panel.

NOTES:

- *If "Err" appears on the display panel, repeat the above steps again.*
- *When a menu screen is shown, you cannot use 24HR Quick Programing function. Press **MENU** to return to normal screen, and try again.*
- *You can use 24HR Quick Programing function also when the VCR is turned off.*
- *For 24HR Quick Programing function, the program overlap warning display does not appear even if some programs overlap each other.*

To use the VCR while it is in timer recording standby mode

Press **TIMER**, then press **POWER** ⏻/I. After you use the VCR, press **TIMER** again to put the VCR into timer recording standby mode.

Checking, Canceling or Changing Program Settings

1 Disengage timer

Press **TIMER**, then press **POWER** ⏻/I.

- When "AUTO TIMER" is set to "ON" (☞ pg. 18), you do not have to press **TIMER**.

2 Access Program Check screen

Press **PROG. CHECK**.

3 Access Program screen

Press **PROG. CHECK** again. Each time you press **PROG. CHECK**, the next program's Program screen appears.

PR	START	STOP	CH	DATE
1	8:00P	10:00	12	12/24
2	10:00A	10:45	40	12/25
3	11:30P	1:00	125	12/25
4				
5				
6				
7				
8				

PRESS (CHECK) TO NEXT

4 Cancel or change program setting

To cancel a program, press **CANCEL** when the Program screen you do not want is shown.

To change a program, press the appropriate button: **START+/–**, **STOP+/–**, **DATE+/–**, **CH+/–**, **DAILY** (**Number key "8"**), **WEEKLY** (**Number key "9"**), and/or **SP/EP** when the Program screen on which you want to make changes is shown.

5 Return to normal screen

Press **PROG. CHECK** repeatedly until no Program screen is shown.

6 Reengage timer recording standby mode

Press **TIMER**. The VCR turns off automatically and "◴" is displayed on the display panel.

- When "AUTO TIMER" is set to "ON" (☞ pg. 18), the timer recording standby mode automatically resumes when you turn off the VCR.

Program Overlap Warning Display

If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking.

PROGRAM NOT COMPLETED

PROGRAM OVERLAP

PR	START	STOP	CH	DATE
1	8:00A	10:00	3	DAILY
2	10:00A	10:45	2	12/25
3	11:30A	13:00	1	12/25
4	9:00A	10:00	92	12/25
5				
6				
7				
8				

(▲,▼) THEN (▶) (PROG.) : END

Example:
Program 1 (you have just made) and Program 4 overlap each other

1 Select program to modify

Press **SHUTTLE PLUS** △▽, then press **OK** or **SHUTTLE PLUS** ▷.

- You can only select one of the overlapping programs.
- If you do not mind this overlap, press **PROG.** to finish the timer program setting. The program starting earlier or program with the lower program number will be recorded.

PR	START	STOP	CH	DATE
1	8:00P	10:00	12	12/24
2	10:00A	10:45	40	12/25
3	11:30P	1:00	125	12/25
4	9:00P	10:00	10	12/24
5				
6				
7				
8				

(▲,▼) THEN (▶) (PROG.) : END

2 Cancel or change program setting

To cancel a program, press **CANCEL** when the Program screen you do not want is shown.

To change a program, press the appropriate button: **START+/–**, **STOP+/–**, **DATE+/–**, **CH+/–**, **DAILY** (**Number key "8"**), **WEEKLY** (**Number key "9"**) and/or **SP/EP** when the Program screen on which you want to make changes is shown, then press **OK** or **SHUTTLE PLUS** ▷.

- If the overlap is not yet solved, the conflicting programs will be shown on the Program check screen. Repeat the above steps again.

PROGRAM 4

START	STOP
9:00PM	10:00PM
DATE	CH
12/24/04 FRI	10 SP

PRESS (CANCEL) TO CANCEL
PRESS (OK) TO CONFIRM
PRESS (PROG.) TO END

Other Functions

Timer warning display

A warning appears on the TV screen to tell you that the timer-recording is to start in 5 minutes if you are not in the timer recording standby mode at that time. Press **TIMER** to put the VCR into timer recording standby mode. To clear the display, press **CANCEL** on the Remote.

–WARNING–
TIMER RECORDING
TO START SOON
(CANCEL)

Checking tape position

When you change the VCR operation mode from the stop mode to fast forward or rewind mode, or when you perform an Index Search (☞ pg. 11) or Instant Review (☞ pg. 11), the tape position indicator appears.

The position of "▮" in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.

- Set "ON SCREEN (REC) and ON SCREEN (PLAY)" to "ON" (☞ pg. 18).

B – – – – + – – – – + – – – – + – – – – E

REMAIN COUNT 1:00 – 1:23:45

Changing display information

When you press **DISPLAY**, the display panel shows the different patterns of information according to "REC/STOP" or "PLAY".

Time Counter → Tape Remaining Time → Channel No.* → Clock Time → Time Counter

** during stop, recording or recording pause only.*

When "ON SCREEN (REC) and ON SCREEN (PLAY)" is set to "ON" (☞ pg. 18) and **OSD** (**OK**) on the Remote is pressed, time counter and tape remaining time will appear on the TV screen. To reset the time counter, press **C.RESET** on the Remote.

Function settings

You can use the other useful function settings on the Function Set screen.

1 Access Main Menu screen, then Function Set screen

Press **MENU** on the Remote. Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "FUNCTION SET", then press **OK** or **SHUTTLE PLUS** ▷.

MAIN MENU
→FUNCTION SET
TUNER SET
INITIAL SET
PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

2 Select Function

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to the function you want to set.

FUNCTION	
→DIGITAL TBC/NR	ON
VIDEO CALIBRATION	ON
PICTURE CONTROL	AUTO
AUTO TIMER	OFF
ON SCREEN (REC)	ON
ON SCREEN (PLAY)	ON
NEXT PAGE	

SELECT WITH (▲,▼) AND (OK)
PRESS (MENU) TO END

PREVIOUS PAGE	
→AUTO SP⇔EP TIMER	OFF
DIGITAL R3	ON
VIDEO STABILIZER	OFF
2ND AUDIO RECORD	OFF
AUDIO MONITOR	HI-FI
S-VHS MODE	ON
NEXT PAGE	

SELECT WITH (▲,▼) AND (OK)
PRESS (MENU) TO END

PREVIOUS PAGE	
→FRONT AUX INPUT	VIDEO
REAR AUX INPUT	VIDEO
S-VHS ET	OFF
REC END RETURN	OFF
DAY/TIME INSERT	OFF
REC SAFETY	ON
DAILY T.RECORD	NORM

SELECT WITH (▲,▼) AND (OK)
PRESS (MENU) TO END

3 Change setting

Press **OK** or **SHUTTLE PLUS** ▷. The default setting is **bold** in the table below. Press **MENU** to return to normal screen.

CONTINUED ON NEXT PAGE

■ DIGITAL TBC/NR — ON/OFF

Your VCR is equipped with a Digital TBC (Time Base Corrector) that removes jitter from fluctuating video signals to deliver a stable picture even with old tapes and rental cassettes. The on/off of Digital — DNR (Noise Reduction) which cuts noise and enables clear picture reproduction is also linked to this function. It is recommended to use the Digital TBC feature when playing back a tape recorded on a camcorder, playing back a tape repeatedly used and using this video recorder as the player for editing.

NOTES:

- *If you play back a tape recorded under poor TV reception condition, there may be cases where the picture becomes more stable with DIGITAL TBC/NR set to **OFF**.*
- *When DIGITAL TBC/NR is set to ON, if you play back a tape where certain types of signals are recorded (using PC or some character generators), the playback picture may be distorted. If this the case, set DIGITAL TBC/NR to **OFF**.*

■ VIDEO CALIBRATION — ON/OFF

When this function is set to "ON", this VCR checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible pictures. This takes place whenever you play back a tape or start recording after inserting a tape.

NOTES:

- *During playback, this function is always working even though "VIDEO CALIBRATION" appears just at the beginning of automatic tracking.*
- *During recording, this function works only for the first EP recording and the first SP recording on an inserted tape.*
- *When you play back rental tapes or tapes recorded on other VCRs, set this function either "ON" or "OFF" whichever gives you the best picture.*

■ PICTURE CONTROL — AUTO(NORM)/EDIT/SOFT/SHARP

This function helps you to adjust the playback picture quality according to your preference.

AUTO (NORM): Normally select this. Picture quality is adjusted automatically. When "VIDEO CALIBRATION" is "OFF", "NORM" will appear instead of "AUTO".

EDIT: Minimizes picture degradation during editing (recording and playback).

SOFT: Reduces image coarseness when viewing overplayed tapes containing much noise.

SHARP: Clearer, sharper-edged picture when viewing images with much flat, same-colored surfaces such as cartoons.

NOTES:

- *When you select "EDIT", "SOFT" or "SHARP", the selected mode will not change until you select again.*
- *Select "EDIT" when you are editing tapes (☞ pg. 22). After you finish editing the tapes, select "AUTO" ("NORM" when "VIDEO CALIBRATION" is "OFF".)*

■ AUTO TIMER — ON/OFF

- **When this function is set to "ON":**
  The timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** to engage or disengage the timer recording standby mode.
- **When this function is set to "OFF":**
  You have to press **TIMER** to engage or disengage the timer recording standby mode.

■ ON SCREEN (REC) — ON/OFF

When this function is set to "ON", if you press **OSD** (**OK**) (☞ pg. 6) various VCR status information (on-screen display) appears on the screen during recording.

NOTE:

The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR.

■ ON SCREEN (PLAY) — ON/OFF

When this function is set to "ON", if you press **OSD** (**OK**) (☞ pg. 6) various VCR status information (on-screen display) appears on the screen during playback.

NOTES:

- *When you use this VCR as the playback VCR for editing a tape, be sure to set this function to "OFF"; otherwise, the VCR status information (on-screen display) will be recorded on the edited tape.*
- *If you select a channel on which no signal is received, the channel number is displayed regardless of this function setting.*
- *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR.*

■ AUTO SP→EP TIMER — ON/OFF

When this function is set to "ON", the VCR automatically switches to EP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode.

For Example, Recording a program of 140 minutes in length onto a 120-minute tape

Approximately 110 minutes	Approximately 30 minutes
SP mode	EP mode

Make sure you set this function to "ON" before the timer-recording starts.

NOTES:

- *If you have programed the VCR to timer-record 2 or more programs, the second program and those thereafter may not fit on the tape with this function set to "ON". In this case, do not use this function, but change the tape speed manually during timer programing.*
- *In order to ensure that the recording fits on the tape, this function may leave a slight non-recorded portion at the end of the tape.*
- *There may be some noise and sound disturbance where the tape speed switches from SP to EP mode on the tape.*
- *This function will not work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and T(ST)-120.*

■ DIGITAL R3 — ON/OFF

When this function is set to "ON", edge correction to the luminance signal is performed to enhance details. Normally set this function to "ON".

NOTES:

- *Depending on the type of tape being used, picture quality may be better with "DIGITAL R3" set to "OFF".*
- *If you use this VCR as the playback VCR for editing, be sure to set "DIGITAL R3" to "OFF" before starting.*

■ VIDEO STABILIZER — ON/OFF

When this function is set to "ON", you can automatically correct vertical vibrations in the picture when playing back unstable recordings made on another VCR.

NOTES:

- *When you finish viewing a tape, be sure to set this function to "OFF".*
- *The on-screen display may jitter vertically when this function is set to "ON".*
- *To watch recordings with close-caption, set this function to "OFF".*

■ 2ND AUDIO RECORD — ON/OFF

- **When this function is set to "ON";**
  If a SAP program is received, the SAP audio is recorded on both the normal and Hi-Fi tracks. The main audio is not recorded.
  If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and normal tracks.
- **When this function is set to "OFF",** the SAP audio cannot be recorded.

■ AUDIO MONITOR — HI-FI/HI-FI L/HI-FI R/NORM/MIX

This VCR can record two sound tracks simultaneously (normal and Hi-Fi) on a tape. You can select the sound track(s) to listen to while playing back a Hi-Fi stereo tape. In addition, when playing back a prerecorded tape containing two separate audio programs on the Hi-Fi tracks, you can choose either one by selecting either "HI-FI L" or "HI-FI R".

HI-FI: Normally select this. Hi-Fi sound is played back.
HI-FI L: Sound on the left Hi-Fi channel is played back.
HI-FI R: Sound on the right Hi-Fi channel is played back.
NORM: Sound on the normal track is played back.
MIX: Both sounds on the Hi-Fi track and normal track are mixed and played back.

NOTES:

- *While playing back a monaural tape, sounds on the normal track will be heard regardless of this setting.*
- *If RF connection (☞ pg. 7) is used for viewing pictures on the TV, sound will be monaural even though you select "HI-FI".*
- *You can also use the **A.MONITOR** button on the Remote to select the desired monitor sound. (☞ pg. 11)*

■ S-VHS MODE — ON/OFF

You can determine which recording mode — either S-VHS mode or VHS mode — is used for recording on S-VHS tapes.

- **When this function is set to "ON"**, you can record on S-VHS tapes with S-VHS picture quality.
- **When this function is set to "OFF"**, you can record on S-VHS tapes with VHS picture quality.

NOTES:

- *S-VHS mode allows you to make high quality video recordings with horizontal resolution of 400 lines, comparing with the 230 lines of resolution of conventional VHS recordings. To achieve the highest quality picture we recommended to record in S-VHS mode. (But remember that a conventional VHS VCR without SQPB cannot play back S-VHS tapes recorded in S-VHS mode.)*
- *S-VHS MODE setting does not affect recording on VHS tapes. Recording on VHS tapes is always performed in VHS mode except when using S-VHS ET mode (☞ pg. 19).*

■ FRONT AUX INPUT — VIDEO/S-VIDEO

You have to select which terminal — either VIDEO (composite) or S-VIDEO (Y/C separate signals) to use as the video input terminal on the front panel.
Make sure to select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.

■ REAR AUX INPUT — VIDEO/S-VIDEO

You have to select which terminal — either VIDEO (composite) or S-VIDEO (Y/C separate signals) to use as the video input terminal on the rear panel.
Make sure you select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.

■ S-VHS ET — ON/OFF

When this function is set to "ON", you can record on VHS cassettes with S-VHS picture quality. Tapes recorded using this function can be played back on most S-VHS VCRs or VHS VCRs equipped with the S-VHS ET function or VHS VCR equipped with the SQPB (S-VHS QUASI PLAYBACK) function.
When this function is set to "ON", the S-VHS indicator lights up on the display panel.

NOTES:

- *Before recording, set "VIDEO CALIBRATION" to "ON". (☞ pg. 18)*
- *You cannot activate the S-VHS ET function while recording (☞ pg. 12), timer-recording (☞ pg. 15) or the "VIDEO CALIBRATION" function (☞ pg. 18) is in progress.*
- *The S-VHS ET function does not work with S-VHS tape.*
- *To keep the highest quality recording and playback pictures over a long period of time, S-VHS recording on S-VHS tape is recommended.*
- *Use of high grade tapes are recommended for S-VHS ET recordings. On some tapes, picture quality will not improve even if the S-VHS ET function is used. Check the recording quality before you start important recordings.*
- *While playing back a tape recorded with this function on some tapes, noise may appear. (If playback picture becomes blurred or interrupted, use a cleaning cassette.)*

■ REC END RETURN — ON/OFF

Returning point for Playback, Repeat Play or Series Playback can be set to tape end or recording end. (This VCR considers 1-second unrecorded portion as the recording end.) When the returning point is reached, playback stops and the cassette will be automatically rewound.
ON: Playback stops at the end of the recording.
OFF: Playback stops at the end of tape.

NOTE:

The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR.

■ DAY/TIME INSERT — ON/OFF

When this function is set to "ON", you can record Month/Day/Year and clock time display with your picture.

NOTES:

- *To use this function, be sure to set "ON SCREEN (REC)" to "ON". (☞ pg. 18))*
- *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR.*
- *This function is not available during Audio Dubbing or Insert Editing.*

■ REC SAFETY — ON/OFF

Usually, you can only record onto a cassette with its record safety tab intact. When this function is set to "OFF", recording can be done onto a cassette whose record safety tab is removed.

NOTES:

- *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR.*
- *When "REC SAFETY" is set to "OFF", playback does not start automatically when you insert a cassette with its record safety tab removed. (☞ pg. 12)*

■ DAILY T. RECORD — NORM/AUTO REW

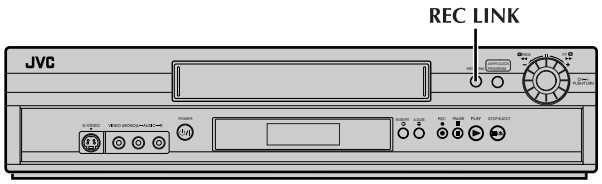
When you set daily timer recording, you can use one cassette repeatedly. If you select "AUTO REW", the VCR rewinds tape each time after timer recording and the timer mode is engaged.
If you select "NORM", the VCR turns off after timer recording. Rewinds the tape or replace it, and engage timer recording standby mode manually.

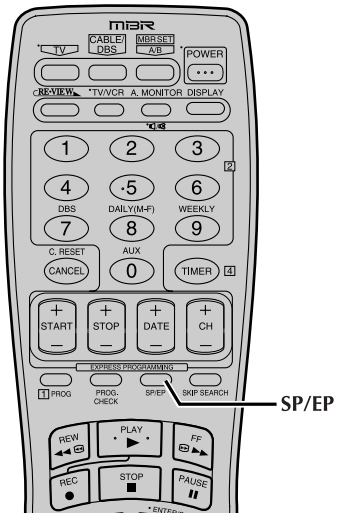
CONTINUED ON NEXT PAGE

Satellite Auto Recording

You can automatically record a satellite program which is timer-programed on your DBS receiver.

Turn on the VCR and TV, and select the VCR channel (or AV mode).





1 Connect a DBS receiver to the AUDIO/VIDEO IN or S-VIDEO IN connectors* on the rear panel. You can also connect the cable box if it has a timer.

** To use these connectors, you have to select which one to use. (☞ See pg. 19, "REAR AUX INPUT".)*

2 Set timer program on DBS receiver referring to its instruction manual.

3 Load a cassette with the record safety tab intact.

4 Press **SP/EP** to set the tape speed. The selected tape speed will appear on the TV screen.

5 Press **REC LINK** for more than 2 seconds. The VCR turns off automatically and enter the Satellite Auto Recording standby mode ("⚠" and "◴" light up). When signals come into the VCR from the DBS receiver, the VCR starts recording ("◴" and "◯" light up and "⚠" blinks). When no signals come into the VCR, the VCR stops recording ("◯" goes off).

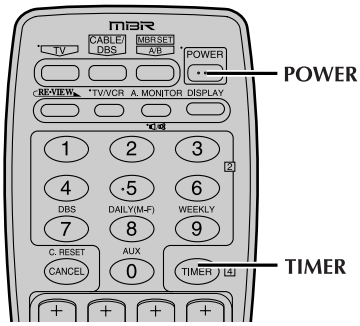
NOTES:

- *Be sure not to turn on the DBS receiver before the program starts broadcasting; otherwise, the VCR will start recording when the DBS receiver is turned on.*
- *To disengage the Satellite Auto Recording standby mode, press **REC LINK** ("⚠" and "◴" go off).*
- *Depending on the type of satellite receiver, Satellite Auto Recording may not be compatible.*

Child Lock

You can disable the VCR operations.

Turn on the VCR and TV, and select the VCR channel (or AV mode).



While the VCR is turned on, press and hold POWER ⏻/I <u>on the Remote</u> for more than 10 seconds.
The VCR turns off, "CL" appears for about 5 seconds on the display panel, then the clock time appears again.

To release the child lock, press and hold POWER ⏻/I on the Remote until the VCR turns on.

NOTES:

- *Pressing **TIMER** during timer recording, unplugging the AC power cord or a power outage also releases the child lock.*
- *Even if the child lock function is in use, it is possible to engage and disengage the timer mode with **TIMER** (◴) on the Remote.*
- *Timer recording programs will be performed even if the child lock function is activated.*
- *When the child lock function is in use, keep the Remote out of the children's reach.*

Multi-Brand Remote Control

This Remote can control some functions of remote controllable TVs, cable boxes or DBS (Direct Broadcast Satellite) receivers listed below. Without setting, you can control a JVC TV.

NOTES:

- *Some unit's brands have more than one code. If the unit does not function with a specified code, try other codes.*
- *Depending on the type of unit, some or all functions cannot be operated using this Remote.*
- *It is not possible to operate a unit not equipped with a remote sensor.*
- *It is not possible to set the Remote for both your cable box and a DBS receiver at the same time.*
- *Once you have set the Remote to operate the unit, you do not have to set it until you replace the batteries from the Remote.*
- *If the batteries of the Remote are discharged, the Remote may not be able to control the TV, cable box or DBS receiver. Replace the batteries.*

TV Brand Setting

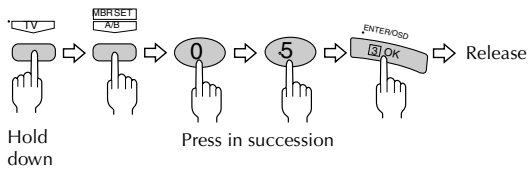
1 Turn on TV

Turn on the TV using the Power button on the TV or its Remote.

2 Set TV brand code

1 Press and hold **TV**.
2 Press **MBR SET**.
3 Press the **Number keys** to enter your TV's brand code.
4 Press **OK**, and release **TV**. The TV should turn off.

(Ex.) To set Remote to RCA 05:



3 Operate TV

While holding down **TV**, press one of the following buttons: **POWER** ⏻/I, **TV/VCR**, **TV CH+/–**, 🔇 (TV Muting), **TV VOL+/–**, and the **Number keys**.

- For some brands, you must press **ENTER** after having pressed the **Number keys** to enter a channel number.

TV BRAND	CODE	TV BRAND	CODE
JVC	01, 03	SONY	07
HITACHI	10	SAMSUNG	12
MAGNAVOX	02	SANYO	13
MITSUBISHI	03	SEARS	13
PANASONIC	04, 11	TOSHIBA	08
RCA	05	ZENITH	09
SHARP	06		

Cable Box or DBS Receiver Brand Setting

Turn on the VCR and TV, and select the VCR channel (or AV mode).

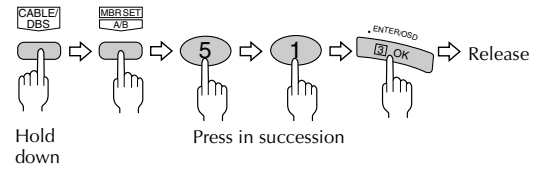
1 Turn on cable box or DBS receiver

Turn on the cable box or DBS receiver using the Power button on the unit or its Remote.

2 Enter brand code

1 Press and hold **CABLE/DBS**.
2 Press **MBR SET**.
3 Press the **Number keys** to enter your cable box's (or DBS receiver's) brand code.
4 Press **OK**, and release **CABLE/DBS**.

(Ex.) To set Remote to JVC 51:



3 Operate cable box or DBS receiver

While holding down **CABLE/DBS**, press one of the following buttons: **POWER** ⏻/I, **TV CH+/–**, and the **Number keys**.

- For some brands, you must press **ENTER** after having pressed the **Number keys** to enter a channel number.
- To change the cable box's (or DBS receiver's) channels, press **TV CH+/–** or the **Number keys**. (The **CH+/–** button can be used to change the VCR's channels only.)

CABLE BOX BRAND	CODE
ARCHER	01, 05, 17
CABLETENNA	01, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	02
DIAMOND	01, 17
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	01, 04, 06, 11, 12, 15, 28
HAMLIN	10, 18, 23
JASCO	15
JERROLD	01, 04, 06, 11, 12, 15, 28
NOVAVISION	02
OAK	07
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 23
REMBRANDT	01, 16, 17
SAMSUNG	05, 16, 24
SCIENTIFIC ATLANTA	02
SIGMA	07
SL MARX	05, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	05, 15, 16, 17, 21, 24, 25
TELEVIEW	05, 16, 24
TOCOM	01, 04, 16
UNIKA	01, 17
UNIVERSAL	16, 17, 25
VIDEOWAY	03, 09, 22
ZENITH	03, 09, 22

DBS RECEIVER BRAND	CODE
JVC (DISH Network)	51
ECHOSTAR (DISH Network)	51
SONY (DSS)	41
RCA (DSS)	40

CONTINUED ON NEXT PAGE

Changing Remote Control Code

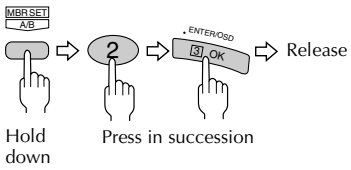
This Remote is capable of transmitting two control codes; one set to respond to A code control signals and another set to respond to B code control signals. This Remote control is preset to send A code signals because your VCR is initially set to respond to A code signals. You can easily modify your VCR and the Remote to respond to B code signals. When using two JVC VCRs, set two VCRs and their Remotes to different codes, so that you can operate these VCRs separately.

1 Set remote control code for Remote

1 Press and hold **A/B**.
2 Press the **Number key** "**2**".
3 Press **OK**, and release **A/B**.

- The Remote now can transmit B code control signals.

(Ex.) To set Remote to B code:



2 Check remote control code for VCR

Press and hold ► on the VCR for more than 5 seconds while the VCR is turned off. The code currently set appears on the display panel.

3 Change code for VCR

Press any key on the Remote. The VCR now responds to B code control signals.

- To set the Remote and the VCR back to A code control signals, repeat the same procedure as shown above except pressing the **Number key** "**1**" in step 2 of **1**.

To control two VCRs with the same Remote

You can control two JVC VCRs by switching the remote control code for the Remote between A and B (☞ step **1**), keeping two VCRs to different control codes.

- To change only the remote control code for the Remote, DO NOT perform steps **2** and **3**.

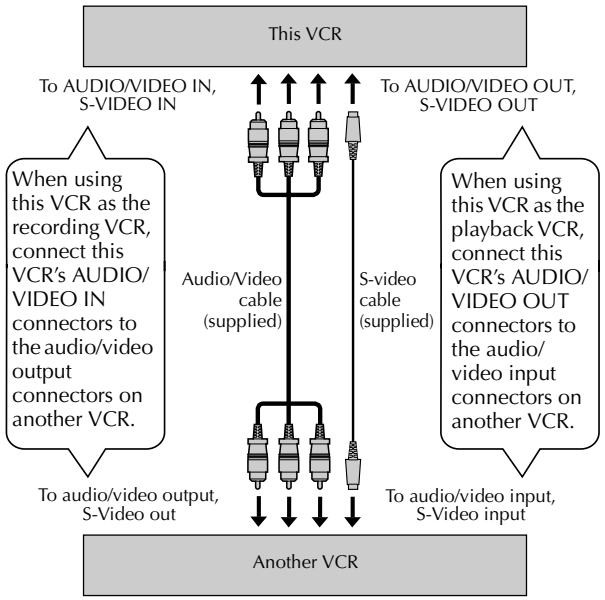
Editing

Editing with Another VCR

You can use your VCR as the playback or recording VCR. You can use a camcorder as the playback VCR and your VCR as the recording VCR. Refer also to the other components' instruction manuals for connection and its operations.

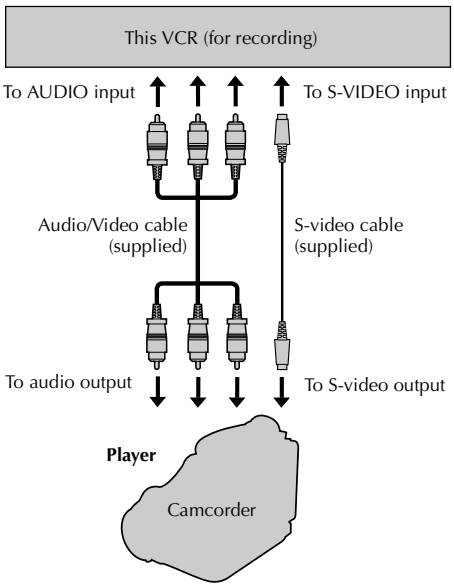
1 Make connections

Example 1


This VCR
To AUDIO/VIDEO IN, S-VIDEO IN
To AUDIO/VIDEO OUT, S-VIDEO OUT
When using this VCR as the recording VCR, connect this VCR's AUDIO/ VIDEO IN connectors to the audio/video output connectors on another VCR.
Audio/Video cable (supplied)
S-video cable (supplied)
When using this VCR as the playback VCR, connect this VCR's AUDIO/ VIDEO OUT connectors to the audio/ video input connectors on another VCR.
To audio/video output, S-Video out
To audio/video input, S-Video input
Another VCR

- If another VCR is monaural, connect this VCR's AUDIO L IN (or OUT) connector to the audio output (or input) connector on another VCR.

Example 2



2 Load cassettes

Insert the playback cassette into the playback VCR and the cassette to be recorded on into the recording VCR.

3 Select input mode on recording VCR

Select the correct external input on the recording VCR.
On this VCR (when using this VCR as the recording VCR);
Select "L-1" — when connecting the other VCR to the audio/video (or S-video) input connectors on the rear panel.
Select "F-1" — when connecting the other VCR to the audio/video (or S-video) input connectors on the front panel.
Press **AUX** or **CH+/–** on the Remote. Or push the **JOG** dial, then turn it to the left or right.

4 Select video input connector on recording VCR

When using this VCR as the recording VCR, select the appropriate mode depending on the connector being used (☞ pg. 19).
When using S-VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "S-VIDEO".
When using S-VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "S-VIDEO".
When using VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "VIDEO".
When using VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "VIDEO".

5 Select edit mode

Set the edit mode to "ON" for the VCRs if such a mode is equipped.
- On this VCR, set "PICTURE CONTROL" to "EDIT" (☞ pg. 18).

6 Start playback

Press **PLAY** (►) on the playback VCR.

7 Start recording

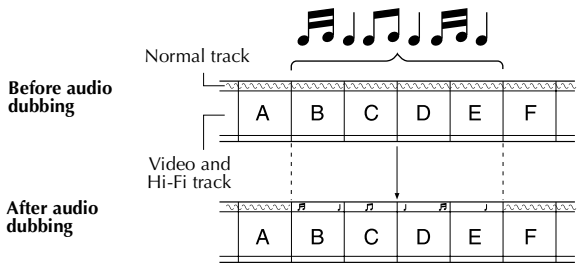
Press **REC** (●) on the recording VCR.

Various connection for editing tapes

The following three methods can be used for editing tapes.
- **VHS to S-VHS editing (VIDEO-VIDEO connection):** Although the picture quality is inherently limited by the original VHS quality, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- **S-VHS to VHS editing (VIDEO-VIDEO connection):** Since the original source is recorded in S-VHS mode, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- **S-VHS to S-VHS (S-VIDEO connection):** Original picture quality of S-VHS made can be duplicated with minimal picture degradation. This is the best editing method you can use on S-VHS VCRs.

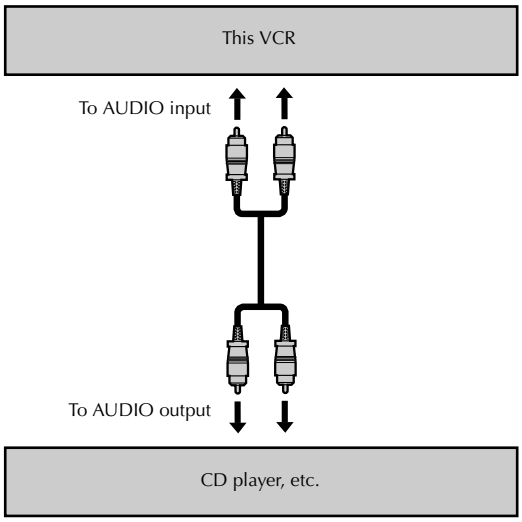
Audio Dubbing

Audio Dubbing replaces the normal audio sound of a previously recorded tape with a new soundtrack.



1 Make connections

Connect an audio cable between the VCR's audio input connectors and the audio component's audio output connectors.
- When connecting a monaural audio component, use only the VCR's AUDIO L input connector.
- Audio Dubbing is possible by using the audio input connectors on the front panel or on the rear panel.



2 Select input mode

Select "F-1" —when connecting the audio component to the audio input connectors on the front panel.
Select "L-1" —when connecting the audio component to the audio input connectors on the rear panel.
Press **AUX** or **CH+/–** on the Remote. Or push the **JOG** dial, then turn it to the left or right.

3 Locate start point, and engage Audio Dubbing mode

Load a cassette and press **PLAY** (►) on the VCR. Press **PAUSE** (❚❚) at the point where you want to start dubbing, then press **A.DUB**.
- The VCR enters the Audio Dubbing Pause mode. "◯" blinks and "▷" lights on the display panel.

4 Start dubbing

Engage the Play mode of the audio component, then press **PLAY** (►) on the VCR. Audio Dubbing begins at this point.
- To pause dubbing, press **PAUSE** (❚❚). Press **PLAY** (►) to resume dubbing.

5 End Audio Dubbing

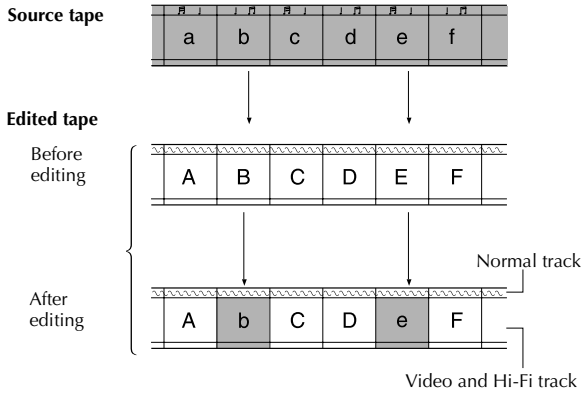
Press **STOP** (■) on the Remote or **STOP/EJECT** (■/⏏) on the VCR, then engage the Stop mode of the audio component.

NOTES:
- *When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the Hi-Fi or mixed sound (Hi-Fi + normal soundtracks), press **A.MONITOR** to select "NORM HI-FI". (☞ pg. 11, "Selecting monitor sound")*
- *Audio Dubbing stops automatically when the counter reaches "0:00:00", and the VCR enters the Play mode. Check the counter reading on the screen before dubbing.*
- *"DAY/TIME INSERT" (☞ pg. 19) is not available during Audio Dubbing.*
- *Audio Dubbing is not possible with a cassette whose record safety tab has been removed. If you want to record onto a tape with its record safety tab removed, set "REC SAFETY" to "OFF" (☞ pg. 19).*
- *When playing back an audio-dubbed tape, press **A.MONITOR** to select the soundtrack you wish to hear. (☞ pg. 11, "Selecting monitor sound")*
- *Picture may be distorted if you pause Audio Dubbing.*

CONTINUED ON NEXT PAGE

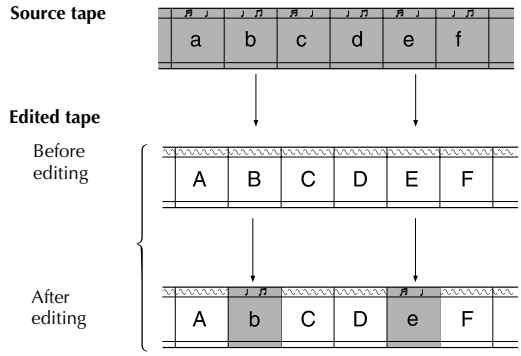
Insert Editing and AV Dubbing

Insert Editing:
You can replace a recorded scene with new scene recorded on another tape or with other material. Both the picture and the sound recorded on the Hi-Fi sound track are replaced at the same time.



AV Dubbing:
You can perform Audio Dubbing and Insert Editing at the same time. This means that the picture and the sounds recorded on the Hi-Fi sound track and on the normal track are replaced at the same time.

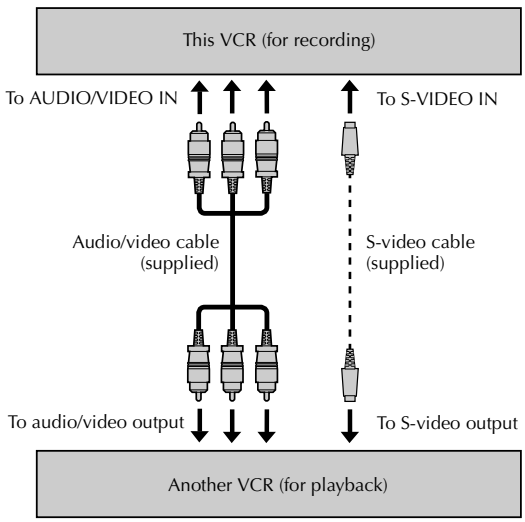
- For AV Dubbing, you can edit pictures and sound using different sources; connect a video source to the video input connector, and an audio source to the audio input connectors.



1 Make connections

Connect an audio/video cable between the VCR's audio/video input connectors and the other component's audio/video output connectors.

- Insert Editing and AV Dubbing are possible by using the audio/video input connectors on the front panel or on the rear panel.



2 Select input mode

Select "F-1" —when connecting the other component to the audio/video input connectors on the front panel.
Select "L-1" —when connecting the other component to the audio/video input connectors on the rear panel.
Press **AUX** or **CH+/–** on the Remote. Or push the **JOG** dial, then turn it to the left or right.

3 Select video input connector

Select the appropriate mode depending on the connector being used (☞ pg. 19).
When using S-VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "S-VIDEO".
When using S-VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "S-VIDEO".
When using VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "VIDEO".
When using VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "VIDEO".

4 Select edit mode

Set the edit mode to "ON" for the VCRs if such a mode is equipped.

- On this VCR, set "PICTURE CONTROL" to "EDIT" (☞ pg. 18).

5 Locate end point

1 Load the cassette to be edited into the VCR and press **PLAY** (▶).
2 Press **PAUSE** (❚❚) when you find the end of the scene for which you want to edit.
3 Press **C.RESET** so that the counter reading becomes "0:00:00".

6 Locate start point, and engage Insert Editing mode

Press **REW** (◀◀), then press **PAUSE** (❚❚) when you find the beginning of the scene for which you want to edit, then press **INSERT**.

- The VCR enters the Insert Editing Pause mode. "◯" and "▷" light on the display panel.
- If you want to perform AV Dubbing and replace the picture, Hi-Fi audio soundtrack and normal audio soundtrack all at the same time, press **INSERT**, then press **A.DUB** also.

7 Start editing

Load the source cassette and engage the Play mode of the other component, then press **PLAY** (▶) on the VCR. Insert Editing begins at this point.

- Insert Editing stops automatically when the counter reaches "0:00:00", and the VCR enters the Play mode.

To stop editing any time during recording

Press **STOP** (■) on the Remote or **STOP/EJECT** (■/⏏) on the VCR, then engage the Stop mode of the other component.

NOTES:

- *Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish editing (☞ pg. 18).*
- *Editing is not possible with a cassette whose record safety tab has been removed. If you want to record onto a tape with its record safety tab removed, set "REC SAFETY" to "OFF" (☞ pg. 19).*
- *The recording speed (SP/EP) is determined by the previous recording to be replaced. If the recording speed changes on the tape to be edited while editing the tape, the inserted picture will be distorted where the recording speed changes.*
- *When you edit a tape, a small portion of the recording preceding to the editing start point will be erased from the edited tape.*
- *DAY/TIME INSERT (☞ pg. 19) is not available during Insert Editing.*

Specifications

GENERAL

Power requirement	:	AC 120 V∿, 60 Hz
Power consumption		
Power on	:	19 W
Power off	:	1.6 W
Temperature		
Operating	:	5°C to 40°C (41°F to 104°F)
Storage	:	–20°C to 60°C (–4°F to140°F)
Operating position	:	Horizontal only
Dimensions (W x H x D)	:	435 mm x 94 mm x 242 mm (17-3/16" x 3-3/4" x 9-3/4")
Weight	:	2.8 kg (6.2 lbs)
Format	:	S-VHS/VHS NTSC standard
Maximum recording time		
SP	:	210 min. with ST-210 video cassette
EP	:	630 min. with ST-210 video cassette

VIDEO/AUDIO

Signal system	:	NTSC-type color signal and EIA monochrome signal, 525 lines/ 60 fields
Recording/Playback system	:	DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	:	45 dB
Horizontal resolution		
VHS	:	230 lines
S-VHS	:	400 lines
Frequency range		
Normal audio	:	70 Hz to 10,000 Hz
Hi-Fi audio	:	20 Hz to 20,000 Hz
Input/Output	:	RCA connectors (IN x 2, OUT x 1) S-video connectors (IN x 2, OUT x 1)

TUNER

Tuning system	:	Frequency-synthesized tuner
Channel coverage		
VHF	:	Channels 2–13
UHF	:	Channels 14–69
CATV	:	113 Channels
RF output	:	Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced

TIMER

Clock reference	:	Quartz
Program capacity	:	1-year programmable timer/ 8 programs
Memory backup time	:	Approx. 27 months Estimated figure base on supplied fresh battery; actual performance may differ.

ACCESSORIES

Provided accessories	:	Infrared remote control unit, "AA" battery x 2, S-video cable (4-pin), RF cable (F-type) Audio/Video cable BNC/RCA adapter x 2

Specifications shown are for SP mode unless specified otherwise.

- E. & O.E. Design and specifications subject to change without notice. Don't service the product yourself.

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List of Terms

This guide serves as a quick way to locate frequently used terms and on-screen display names.

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Troubleshooting

Before requesting service, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you from the trouble of sending your VCR off for repair.

Power

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The power will not come on.	● The AC power cord is disconnected. ● The Child Lock function is activated.	● Connect the AC power cord. ● Press and hold **POWER** ⏻/I for more than 10 seconds to release the Child Lock function. (☞ pg. 20)
The clock works, but the VCR's power will not come on.	● The VCR is in the timer recording standby mode with "AUTO TIMER" set to "OFF" (☞ pg. 18). ● The Child Lock function is activated.	● Press **TIMER** to disengage the timer. ● Press and hold **POWER** ⏻/I for more than 10 seconds to release the Child Lock function. (☞ pg. 20)
The Remote will not function.	● The batteries are discharged. ● The VCR is in the timer recording standby mode. ● Remote control A/B code is wrong.	● Replace batteries. ● Press **TIMER** to disengage the timer. ● Reset A/B code. (☞ pg. 22)

Playback

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The tape is running but the picture will not appear.	● If the RF connection (☞ pg. 7) is used to view the picture, the channel on the TV is set incorrectly. ● If the AV or S-video connection (☞ pg. 7) is used to view the picture, the TV receiver is set to the wrong mode.	● Select channel 3 or 4 on the TV. ● Select the AV mode on the TV.

Recording

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Recording will not start.	● There is no cassette loaded. ● "REC SAFETY" is set to "ON" and the loaded cassette has had its record safety tab removed.	● Insert a cassette on which the record safety tab is intact. ● Set "REC SAFETY" to "OFF" (☞ pg. 19).

Timer Recording

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Timer recording will not work.	● The clock and/or the timer program have been set incorrectly. ● The timer is not engaged. ● The VCR has not been set up properly.	● Set the clock and/or timer program correctly. ● Press **TIMER** to engage the timer and make sure that ⏲ appears on the display panel. ● Re-perform the set-up procedures. Make sure you have compensated for guide channel and VCR channel number mismatches. (☞ pg. 15)
Timer programing will not work.	● Timer recording is in progress.	● Timer programing cannot be performed when timer recording is in progress. Wait until it finishes.
You moved, and now VCR Plus+ system does not work properly	● The receivable stations in the new area are received on different channels than those in the previous area.	● Re-perform the procedure in "Changing VCR Plus+® Setting" (☞ pg. 15).

Other Problems

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The channel cannot be changed.	● Recording is in progress.	● Press **PAUSE** (**II**) to pause the recording, change channels, then press **PLAY** (►) to resume recording.
Even though Auto or Semiauto Clock Set has been performed, the clock is incorrect.	● The clock setting data received from the host channel is incorrect.	● Select a different host channel during Semiauto Clock Set (☞ pg. 8), or perform Manual Clock Set (☞ pg. 8).
Buttons and controls do not function at all.	● Mode Lock is activated.	● Press and hold **OK** on the Remote for more than 5 seconds to deactivate Mode Lock.

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